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☐ 1: Cid-Arregui A, Juarez V, zur Hausen H. Related Articles, Links



A synthetic E7 gene of human papillomavirus type 16 that yields enhanced expression of the protein in mammalian cells and is useful for DNA immunization studies.

J Virol. 2003 Apr;77(8):4928-37.

PMID: 12663798 [PubMed - indexed for MEDLINE]

☐ 2: Mossadegh N, Gissmann L, Muller M, Zentgraf H, Alonso A, Tomakidi P. Related Articles, Links



Codon optimization of the human papillomavirus 11 (HPV 11) L1 gene leads to increased gene expression and formation of virus-like particles in mammalian epithelial cells.

Virology. 2004 Aug 15;326(1):57-66.

PMID: 15262495 [PubMed - indexed for MEDLINE]

☐ 3: Liu WJ, Gao F, Zhao KN, Zhao W, Fernando GJ, Thomas R, Frazer IH. Related Articles, Links



Codon modified human papillomavirus type 16 E7 DNA vaccine enhances cytotoxic T-lymphocyte induction and anti-tumour activity.

Virology. 2002 Sep 15;301(1):43-52.

PMID: 12359445 [PubMed - indexed for MEDLINE]

☐ 4: Osen W, Jochmus I, Muller M, Gissmann L. Related Articles, Links



Immunization against human papillomavirus infection and associated neoplasia.

J Clin Virol. 2000 Oct;19(1-2):75-8.

PMID: 11091150 [PubMed - indexed for MEDLINE]

☐ 5: Cheung YK, Cheng SC, Sin FW, Xie Y. Related Articles, Links



Plasmid encoding papillomavirus Type 16 (HPV16) DNA constructed with codon optimization improved the immunogenicity against HPV infection.

Vaccine. 2004 Dec 16;23(5):629-38.

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Related Articles, Links

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Human papillomavirus type 16 E7 DNA vaccine: mutation in the open reading frame of E7 enhances specific cytotoxic T-lymphocyte induction and antitumor activity.

J Virol. 1999 Sep;73(9):7877-81.

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☐ 8: [Dupuy C, Buzoni-Gatel D, Touze A, Bout D, Coursaget P.](#)[Related Articles, Links](#)

Nasal immunization of mice with human papillomavirus type 16 (HPV-16) virus-like particles or with the HPV-16 L1 gene elicits specific cytotoxic T lymphocytes in vaginal draining lymph nodes.

J Virol. 1999 Nov;73(11):9063-71.

PMID: 10516012 [PubMed - indexed for MEDLINE]

☐ 9: [Osen W, Peiler T, Ohlschlager P, Caldeira S, Faath S, Michel N, Muller M, Tommasino M, Jochmus I, Gissmann L.](#)[Related Articles, Links](#)

A DNA vaccine based on a shuffled E7 oncogene of the human papillomavirus type 16 (HPV 16) induces E7-specific cytotoxic T cells but lacks transforming activity.

Vaccine. 2001 Jul 20;19(30):4276-86.

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☐ 10: [Cheng WF, Hung CF, Chai CY, Hsu KF, He L, Rice CM, Ling M, Wu TC.](#)[Related Articles, Links](#)

Enhancement of Sindbis virus self-replicating RNA vaccine potency by linkage of Mycobacterium tuberculosis heat shock protein 70 gene to an antigen gene.

J Immunol. 2001 May 15;166(10):6218-26.

PMID: 11342644 [PubMed - indexed for MEDLINE]

☐ 11: [Pokorna D, Mackova J, Duskova M, Rittich S, Ludvikova V, Smahel M.](#)[Related Articles, Links](#)

Combined immunization with fusion genes of mutated E7 gene of human papillomavirus type 16 did not enhance antitumor effect.

J Gene Med. 2005 Jun;7(6):696-707.

PMID: 15712328 [PubMed - indexed for MEDLINE]

☐ 12: [Herd K, Fernando GJ, Dunn LA, Frazer IH, Lambert P, Tindle RW.](#)[Related Articles, Links](#)

E7 oncoprotein of human papillomavirus type 16 expressed constitutively in the epidermis has no effect on E7-specific B- or Th-repertoires or on the immune response induced or sustained after immunization with E7 protein.

Virology. 1997 Apr 28;231(1):155-65.

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Development of a DNA vaccine targeting human papillomavirus type 16 oncoprotein E6.

J Virol. 2004 Aug;78(16):8468-76.

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☐ 14: [Kawana K, Kawana Y, Yoshikawa H, Taketani Y, Yoshiike K, Kanda T.](#)[Related Articles, Links](#)

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PMID: 11163673 [PubMed - indexed for MEDLINE]
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-  Low-dose adenovirus vaccine encoding chimeric hepatitis B virus surface antigen-human papillomavirus type 16 E7 proteins induces enhanced E7-specific antibody and cytotoxic T-cell responses.  
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PMID: 16188983 [PubMed - indexed for MEDLINE]
- ☐ 16: [Chen CH, Wang TL, Hung CF, Pardoll DM, Wu TC.](#) [Related Articles, Links](#)
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- ☐ 17: [Kim MS, Sin JI.](#) [Related Articles, Links](#)
-  Both antigen optimization and lysosomal targeting are required for enhanced anti-tumour protective immunity in a human papillomavirus E7-expressing animal tumour model.  
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- ☐ 18: [Li J, Sun Y, Garen A.](#) [Related Articles, Links](#)
-  Immunization and immunotherapy for cancers involving infection by a human papillomavirus in a mouse model.  
Proc Natl Acad Sci U S A. 2002 Dec 10;99(25):16232-6. Epub 2002 Nov 21.  
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-  Modification of HPV 16 E7 genes: correlation between the level of protein expression and CTL response after immunization of C57BL/6 mice.  
Vaccine. 2005 Jan 19;23(9):1149-57.  
PMID: 15629358 [PubMed - indexed for MEDLINE]
- ☐ 20: [Michel N, Osen W, Gissmann L, Schumacher TN, Zentgraf H, Muller M.](#) [Related Articles, Links](#)
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Virology. 2002 Mar 1;294(1):47-59.  
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☐ 1. Document ID: US 20050118139 A1, WO 2003018055 A1, EP 1427443 A1

L22: Entry 1 of 2

File: DWPI

Jun 2, 2005

DERWENT-ACC-NO: 2003-278620

DERWENT-WEEK: 200537

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TITLE: Treating or preventing a disease caused by a papillomavirus, comprises administering to a mammal a vaccine vector comprising a canine papillomavirus E gene

INVENTOR: CHEN, L; HUANG, L ; JANSEN, K U ; MC CLEMENTS, W L ; MONTEIRO, J ; SCHULTZ, L D ; TOBERY, T ; WANG, X ; MCCLEMENTS, W L ; MONTEIRO, J M ; TOBERY, T W.

PRIORITY-DATA: 2001US-314395P (August 23, 2001), 2004US-0487148 (August 30, 2004)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20050118139 A1	June 2, 2005		000	A61K048/00
WO 2003018055 A1	March 6, 2003	E	021	A61K039/12
EP 1427443 A1	June 16, 2004	E	000	A61K039/12

INT-CL (IPC): A61 K 39/12; A61 K 48/00; C07 H 21/04; C12 N 7/00; C12 N 15/00; C12 N 15/861

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	References	Claims	KWC	Draw D
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☐ 2. Document ID: DE 60016765 T2, WO 200114416 A2, AU 200070639 A, EP 1212358 A2, JP 2003511010 W, AU 772611 B2, EP 1212358 B1, DE 60016765 E, US 20050075303 A1, ES 2233437 T3

L22: Entry 2 of 2

File: DWPI

Nov 24, 2005

DERWENT-ACC-NO: 2001-218428

DERWENT-WEEK: 200581

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TITLE: Novel synthetic polynucleotide encoding human papillomavirus (HPV) protein or mutated HPV protein useful as anti-HPV vaccines, comprises optimized-codons for expression of the viral proteins in human host cells

INVENTOR: CHEN, L; JANSEN, K U ; MCCLEMENTS, W L ; NEEPER, M P ; SCHULTZ, L D ; WANG, X ; JANSEN, U ; MCCLEMENTS, L ; NEEPER, P ; SCHULTZ, D

PRIORITY-DATA: 2000US-210143P (June 7, 2000), 1999US-150728P (August 25, 1999),

2000US-0642405 (August 21, 2000), 2003US-0728131 (December 4, 2003)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 60016765 T2</u>	November 24, 2005		000	C07K014/025
<u>WO 200114416 A2</u>	March 1, 2001	E	119	C07K014/00
<u>AU 200070639 A</u>	March 19, 2001		000	C07K014/00
<u>EP 1212358 A2</u>	June 12, 2002	E	000	C07K014/025
<u>JP 2003511010 W</u>	March 25, 2003		130	C12N015/09
<u>AU 772611 B2</u>	May 6, 2004		000	C07K014/00
<u>EP 1212358 B1</u>	December 15, 2004	E	000	C07K014/025
<u>DE 60016765 E</u>	January 20, 2005		000	C07K014/025
<u>US 20050075303 A1</u>	April 7, 2005		000	A61K048/00
<u>ES 2233437 T3</u>	June 16, 2005		000	C07K014/025

INT-CL (IPC): A61 K 35/76; A61 K 39/23; A61 K 48/00; A61 P 31/12; C07 H 21/04;  
C07 K 14/00; C07 K 14/025; C12 N 5/10; C12 N 15/09; C12 N 15/861; C12 P 21/02;  
C12 Q 1/70

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KWIC	Draw D
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L21 and papillomavirus

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<b>Term:</b>	L26 and papillomavirus.clm.	
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*DB=USPT; PLUR=YES; OP=ADJ*

<u>L29</u>	L26 and papillomavirus.clm.	3	<u>L29</u>
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<u>L27</u>	L26 and papillomavirus	191	<u>L27</u>
<u>L26</u>	codon usage	4318	<u>L26</u>

*DB=PGPB; PLUR=YES; OP=ADJ*

<u>L25</u>	US-20050075303-A1.did.	1	<u>L25</u>
<u>L24</u>	US-20050075303-A1.did.	1	<u>L24</u>

*DB=EPAB; PLUR=YES; OP=ADJ*

<u>L23</u>	WO-200114416-A2.did.	0	<u>L23</u>
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*DB=DWPI; PLUR=YES; OP=ADJ*

<u>L22</u>	L21 and papillomavirus	2	<u>L22</u>
<u>L21</u>	Chen L.in.	3007	<u>L21</u>
<u>L20</u>	WO200114416	0	<u>L20</u>
<u>L19</u>	WO-200114416	0	<u>L19</u>
<u>L18</u>	WO-200114416-A1.did.	0	<u>L18</u>
<u>L17</u>	WO-200208435-A1.did.	1	<u>L17</u>



*DB=USPT; PLUR=YES; OP=ADJ*

L16 WO-200208435-A1.did. 0 L16

*DB=EPAB; PLUR=YES; OP=ADJ*

L15 WO-200208435-A1.did. 0 L15

L14 WO-200208435-A1.did. 0 L14

*DB=DWPI; PLUR=YES; OP=ADJ*

L13 Ertl P F.in. 7 L13

*DB=USPT; PLUR=YES; OP=ADJ*

L12 HPV6a.clm. 2 L12

L11 HPV-6.clm. 11 L11

L10 HPV-6 98 L10

L9 HPV-6a 6 L9

L8 Ertl.in. and virus 10 L8

L7 Ertl.in. and papilloma virus 3 L7

L6 Ertl.in. and papillomavirus 0 L6

L5 Ertl.in. 101 L5

L4 Ertl Peter.in. 2 L4

L3 Ertl Peter F.in. 0 L3

*DB=PGPB; PLUR=YES; OP=ADJ*

L2 L1 and HPV 10 L2

L1 codon usage pattern 98 L1

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